

10. Sergey

Program Name: Sergey.java

Input File: sergey.dat

Sergey has taken a job with ASCII Art Unlimited Inc. AAUI trades in ASCII art images. Often times a customer will ask that a piece of artwork that they would like to purchase be shown sideways or upside down. AAUI has some wonderful artist creating beautiful images but they haven't yet developed the technology to rotate images. That's why they hired you! Write a program that will rotate and display an ASCII art image a designated number of degrees.

Input: The first line in the input file will be a single number N which will not be greater than 10. N is the number of ASCII images that should be rotated. N sets of data will follow. Each data set will begin with a line that contains two numbers, L and D. L is the dimension of one side of the image and $2 \leq L \leq 25$. Each image will always be square. D is the number of degrees that the image should be rotated in a clockwise fashion and $90 \leq D \leq 720$. D will always be a multiple of 90. The images will consist of only printable, non-space characters.

Output: Each rotated image followed on the next line by the word DONE in all caps. There should not be any space between DONE and the next rotated image.

Sample input:

```
2
5 90
<...>
.O.O.
..|..
.(_).
.....
22 180
*****
*****
*****
*****
* *****
(.\*****
*) .) **  --  *****
(.(**/.....\**A - A**
*\./.....\./.,.,.\*
**\.....=;.t../=
***\.....\_--/**
***\..|***\..;*****
***/.//***|.||*****
**/_,')***|_,')*****
*****
*****
*****
*****
*****
*****
*****
*****
*****
*****
```

Sergey sample output:

```
. . . . <
.(.O.
.|..
.)O.
. . . . >
DONE
*****
*****
*****
*****
*****
*****
***** ) , _ | ***** ) , _ / ***
***** || . | **** // . _ / *****
***** ; .. \ ***** | . . \ *****
**/_--_ \ ... _____ . . . . \ ***
=/. . t. . . ; =. . . . . . . . \ **
*\ , , , , ./\ . . . . . /\ . \ *
*A _ - A**\ . . . . . /**( . (
***** -- **) .) *
***** \ . (
***** _
*****
*****
*****
*****
*****
*****
```

DONE